

A-68944  
ESW



3720  
#6/A

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

STUART J. KNOWLES ET AL.

Serial No. 09/615,294

Filed: July 13, 2000

For: METHOD OF MANUFACTURING A  
TUNING FORK WITH REDUCED  
QUADRATURE ERROR AND  
SYMMETRICAL MASS BALANCING

Examiner: Dexter Tugbang

Group Art Unit 3729

December 14, 2001

TC 3700 MAIL ROOM

FEB-4 2002

RECEIVED

*# copy attached*  
**AMENDMENT**

Assistant Commissioner for Patents  
Washington, DC 20231

Sir:

In response to the Office Action mailed September 14, 2001, please amend this application as follows:

IN THE TITLE

03/06/2002 GW00TEA 00000001 061300 09615294  
Sale Ref: 00000001 DAB: 061300 09615294  
01 FC:102 168.00 CH

read as follows:  
METHOD OF MANUFACTURING A TUNING FORK WITH REDUCED  
QUADRATURE ERROR AND SYMMETRICAL MASS BALANCING

IN THE SPECIFICATION

Amend Page 4, lines 1 - 2 to read as follows:

*Sub C4 A1*  
Figure 3 is a view similar to Figure 2, illustrating the balancing masses being trimmed with a laser to reduce quadrature error.

*per 3/1/02*  
Amend Page *5*, lines 12 - 20 to read as follows:

*AD*  
The mass elements can be trimmed by any suitable means such as a laser 30. In one presently preferred embodiment, the tines are fabricated of a material such as crystalline quartz which is transparent to the laser beam, and all of the masses are trimmed from the same side of the fork. Thus, for example, the laser might be positioned on the front side of the fork, with the laser beam 30a passing through the fork to trim elements 28, 29 on the back sides of the tines. Alternatively, if desired,